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Environmental Review Form for Pavement Performance Trial Sections along the Gumbo Rajaf East Road

A. Applicant information

Organization:	UNOPS	Parent grant or project:	Responsive Assistance for Priority Infrastructure Development
Individual contact and title:	Mustafa Iqbal Azam, Program Manager	Address, phone & email (if available)	MustafaAZ@unops.org
Proposed subproject /subgrant (brief description)	Pavement Performance Trial Sections along the Gumbo Rajaf East Road (this project is a 'research' project and is thus classified under a 'Categorical Exclusion' under the RAPID Program IEE)	Amount of funding requested: US\$	3,133.00
		Period of performance:	24 months
		Location(s) of proposed activities:	Juba, South Sudan

B. Activities, screening results, and findings

Proposed activities (Provide DESCRIPTIVE listing. Continue on additional page if necessary)	Screening result (Step 3 of instructions)			Findings (Step 6 of instructions. Complete for all moderate/unknown and high-risk activities ONLY)		
	Very Low Risk	High-Risk*	Moderate or unknown risk*	significant adverse impacts are very unlikely	With specified mitigation, significant adverse impacts are very unlikely	Significant Adverse impacts are possible
1. Cleaning of Hydraulic Structures and side drains	✓			✓		
2. Road Bed Preparation	✓			✓		
2. Subbase Construction	✓			✓		
3. Base Course Construction	✓			✓		
5. Bituminous Surface Dressing	✓			✓		
6. Otta Seal	✓			✓		
7. Sand Seal	✓			✓		
8. Concrete Block Paving	✓			✓		

Note: According to the RAPID IEE, this project is under categorical exclusion. Therefore Environmental requirements for this projects are only to have an Environmental Management Plan to ensure that the project remains under the research objective. A screening was undertaken to confirm this --given the low risk and the categorical exclusion, no ERR is necessary at this stage.

C. Certification:

I, the undersigned, certify that:

1. The information on this form and accompanying environmental review report (if any) is correct and complete.
2. Implementation of these activities will not go forward until specific approval is received from the C/AOTR.
3. All mitigation and monitoring measures specified in the Environmental Review Report will be implemented in their entirety, and that staff charged with this implementation will have the authority, capacity and knowledge for successful implementation.

(Signature) [Signature]

(Date) 18/12/12

(Print name) ADEBIYE ODEGBAYE

(Title) Programme Officer

Note: if screening results for any activity are "high risk" or "moderate or unknown risk," this form is not complete unless accompanied by an environmental review report.

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Notes:

1. For clearance to be granted, the activity MUST be within the scope of the activities for which use of the ERF is authorized in the governing IEE. Review IEE before signature. If activities are outside this scope, deny clearance and provide explanation in comments section. The Partner, C/AOTR, MEO and REA must then confer regarding next steps: activity re-design, an IEE or EA.
2. Clearing an ERF containing one or more findings that significant adverse impacts are possible indicates agreement with the analysis and findings. It does NOT authorize activities for which "significant adverse impacts are possible" to go forward. It DOES authorize other activities to go forward. The Partner, C/AOTR, MEO and REA must then confer regarding next steps: activity re-design, an IEE or EA.

Clearance record

C/AOTR	(print name)	(signature)	(date)
<input checked="" type="checkbox"/> Clearance given	<u>RICHARD NIYARSUK</u>	<u>[Signature]</u>	<u>23/07/13</u>
<input type="checkbox"/> Clearance denied			
USAID/XXXX MEO	(print name)	(signature)	(date)
<input checked="" type="checkbox"/> Clearance given	<u>RICHARD NIYARSUK</u>	<u>[Signature]</u>	<u>23/07/13</u>
<input type="checkbox"/> Clearance denied			
Regional Env. Advisor (REA)	(print name)	(signature)	(date)
<input type="checkbox"/> Clearance given			
<input type="checkbox"/> Clearance denied			
Bureau Env. Officer (BEO)*	(print name)	(signature)	(date)
<input type="checkbox"/> Clearance given			
<input type="checkbox"/> Clearance denied			

C/AOTR, MEO and REA clearance is required. BEO clearance is required for all "high risk" screening results and for findings of "significant adverse impacts possible. The BEO may review"

Note: if clearance is denied, comments must be provided to applicant (use space below & attach sheets if necessary)



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Pavement Performance Trial Sections along the Gumbo Rajaf East Road Environmental Management Plan (EMP)

EMP Part 1 of 3: Environmental Verification Form

Name : Mustafa Iqbal Azam, Program Manager

Date of Screening: 21 November 2012

Name of Prime Implementing Organization:
UNOPS

Funding Period for this award: FY '13 – FY '15

Current FY Resource Levels: FY _____

Name of Sub-awardee Organization (if this EMP is for a sub): Yet to be awarded

This report prepared by:
Name: Million Abate Date: 22/11/12

Geographic location of USAID-funded activities (Province, District): Juba, South Sudan

Date of Previous EMP for this organization: N/A

Indicate which activities your organization is implementing under this funding:

Key Elements of Program/Activities Implemented		Yes	No
1	Pavement Performance Trial sections (10KM) (3 packages)	x	



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EMP Part 2 of 3: Environmental Mitigation and Monitoring Plan

Category of Activity	Describe specific environmental threats of your organization's activities (based on analysis in Section 3 of the IEE)	Description of Mitigation Measures for these activities as required in Section 5 of IEE	Who is responsible for monitoring	Monitoring Indicator	Monitoring Method	Frequency of Monitoring
Selection of Road for trial section	Interference with public and local communities and/or government activities/services	Avoid populated, militarized and cultivated areas as much as possible	UNOPS	Communities and local institutions are aware and in agreement with the proposed works	Baseline survey and community discussion reports	Once during the planning Stage
Clearing and grubbing works, including removal of vegetation from the full construction road width.	Loss of vegetation, damage to ecosystems	The width of trial sections does not exceed the current width of the road. If any clearing is necessary to ensure road width, removal of vegetation will be reduced to a minimum and tree removal avoided	UNOPS	Activities confined within the 7 meter existing road width including side drains (No removal of vegetation)	Visual verification	weekly
Selection and use of bitumen	Air pollution and land degradation	Select bitumen type with little and/or no environmental impact (emulsion asphalt)	UNOPS	Use of hazardous bitumen solvents such as gasoline and/or kerosene is avoided	Invoices for procurement of bitumen	monthly
	Surface water and soil	Avoid use of bitumen	UNOPS	No significant	Visual	daily

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Category of Activity	Describe specific environmental threats of your organization's activities (based on analysis in Section 3 of the IEE)	Description of Mitigation Measures for these activities as required in Section 5 of IEE	Who is responsible for monitoring	Monitoring Indicator	Monitoring Method	Frequency of Monitoring
	contamination by excess or spillage of bitumen	outside the road to be surfaced		spillage of bitumen is seen out of the working areas	verification	
Extraction of Construction materials such as aggregates and gravels	Land degradation and unsustainable use of natural resources	Material will be sourced. Locally available material will be sourced from managed sites. No on-site borrow-pits are required for the works.	UNOPS	No borrow-pits are opened or used on site. Receipts of materials acquired	Visual verification	weekly
Storage of construction material and equipment	Damage valuable ecosystems and habitats Aesthetic damage	Sites for temporary/permanent storage of construction materials and equipment will be limited to one (1) area per section and will be identified as: <ul style="list-style-type: none"> - Storage in Juba (WP1) or - Stock-piling and storage on existing materials site (e.g. re-instated borrow-pit areas) - Storage on the sandy areas (no vegetation) 	UNOPS	Location of the storage areas	Visual verification, photographs	weekly
	Surface water and soil contamination by	Equipment/machinery will preferentially be stored in	UNOPS	Use of plastic sheeting to store	Visual verification	daily

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Category of Activity	Describe specific environmental threats of your organization's activities (based on analysis in Section 3 of the IEE)	Description of Mitigation Measures for these activities as required in Section 5 of IEE	Who is responsible for monitoring	Monitoring Indicator	Monitoring Method	Frequency of Monitoring
		waste (e.g. used oils) is foreseen in these works.				
	Noise pollution	Heavy machinery will be operated during the day. Any operation at night will be avoided and restricted to a minimum	UNOPS	Number of complaints from residents	Complaints report	monthly
	Dust Pollution	Water spraying will be used to reduce dust	UNOPS (implementation by Contractor)	-Number of complaints from the road side community -Dust cloud occurrences	Complaints reports Visual verification	weekly
Drainage design and construction	Soil erosion, altered hydrology	proper design in terms of drainage structures types and sizes and provision of erosion control measures (scour checks, gabion walls, stone pitching on steep and erosive areas) Streams and watercourse are kept clear from any debris or waste	UNOPS (implementation by Contractor)	Specifications in the design for erosion control implemented Number of gulleys and size especially after every rainy season Number of water courses blocked by debris or waste	Visual verification	Montly Weekly during the rainy season
End of construction	Land degradation	The construction area will	UNOPS	No waste or	Visual	Once at the

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works / site clean up		<p>be entirely cleaned-up.</p> <p>All waste will be cleared and disposed of at Juba municipality waste site</p> <p>All excess and unused materials are removed and disposed of to designated spoil tips</p>	(implementation by Contractor)	materials stockpiles are present in the construction area	<p>verification; photographs</p> <p>Enforcement through withholding final payments</p>	end of the project and before handover

EMP part 3 of 3: Reporting form – to be completed at implementation

Certification

I certify the completeness and the accuracy of the mitigation and monitoring plan described above for which I am responsible and its compliance with the IEE:

[Handwritten Signature]
Signature 18/12/12
Date

ADEBITY ODEGRIE
Print Name

UNOPS
Organization



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USAID/South Sudan, _____ Program, Clearance of EMP:

Cognizant Technical Officer: *[Handwritten Signature]* Date: 23/01/13

Mission Environmental Officer: *[Handwritten Signature]* Date: 23/01/13

As appropriate: REA, BEO [depending on nature of activity, which potentially may require an EA]

Note: if clearance is denied, comments must be provided to applicant